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proceed to another encoding processing after the encoding processing without waiting the work of multiplexing unit 15. The work is not interrupted. Similarly, the multiplexing unit 15 also can proceed to another multiplexing processing without waiting the work of detecting processing of the decoding unit 17, and the work is not interrupted. In this way, in the case of the authoring apparatus 10, the storage unit 14 is commonly used between respective units, so that each of units can operate independently. Thereby, the interruption of work can be prevented to reduce the working time as a whole, so as to improve the working efficiency comparing to the conventional apparatus.--

IN THE CLAIMS:

Applicants have requested amendment to claims 1-4 and 7, a copy of each of these claims being presented herein. A marked-up version of these claims indicating insertions and deletions is included as an attachment to this amendment.

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1. (Amended) An editing apparatus for encoding a plurality of images or sounds and multiplexing plural encoded data so as to produce recording data which is recorded in a recording medium, said editing apparatus comprising:

single storage means having a plurality of input ports and at least one output port, control of said single storage means residing in a single control means;

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proceed to another encoding processing after the encoding processing without waiting the work of multiplexing unit 15. The work is not interrupted. Similarly, the multiplexing unit 15 also can proceed to another multiplexing processing without waiting the work of detecting processing of the decoding unit 17, and the work is not interrupted. In this way, in the case of the authoring apparatus 10, the storage unit 14 is commonly used between respective units, so that each of units can operate independently. Thereby, the interruption of work can be prevented to reduce the working time as a whole, so as to improve the working efficiency comparing to the conventional apparatus.--

IN THE CLAIMS:

Applicants have requested amendment to claims 1-4 and 7, a copy of each of these claims being presented herein. A marked-up version of these claims indicating insertions and deletions is included as an attachment to this amendment.

1. (Amended) An editing apparatus for encoding a plurality of images or sounds and multiplexing plural encoded data so as to produce recording data which is recorded in a recording medium, said editing apparatus comprising:

single storage means having a plurality of input ports and at least one output port, control of said single storage means residing in a single control means;

a plurality of encoding means for encoding inputted images or sounds, and for storing encoded data in a predetermined

recording area of said storage means through said input ports;
and

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multiplexing means for reading said encoded data to be multiplexed from said storage means through said output port so as to produce the multiplexed data, and for storing the multiplexed data in a predetermined recording area of said storage means through one of said input ports as said recording data;

wherein said controls means controls the allocation of the recording area of said storing means, wherein a different recording area is assigned to each of said plurality of encoding means for storing encoded data encoded thereby, the locations of said assigned different recording areas in which said encoded data has been stored are given to said multiplexing means, and a recording area which is different from that assigned to store said encoded data is assigned to said multiplexing means as an area where said multiplexed data is stored, wherein said encoding, multiplexing, storing and reading may be performed without transferring data via another control means.

2. (Amended) The editing apparatus according to claim 1, wherein

said control means outputs information necessary for encoding processing to each of said plurality of encoding means, so as to instruct the encoding means to start the encoding processing.

3. (Amended) The editing apparatus according to claim 1, wherein

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said control means gives each of said plurality of encoding means the address information of said recording area for storing the encoded data, when said encoding means requests an area where the encoded data will be stored.

4. (Amended) The editing apparatus according to claim 1, wherein

when said control means receives information that each of said plurality of encoding means has completed the encoding processing, the control means gives said multiplexing means the address information of the recording area in which said encoded data has been stored and the address information of said recording area in which said multiplexed data is stored, so as to instruct the multiplexing means to start the multiplexing processing.

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7. (Amended) A data editing method for encoding a plurality of images or sounds and multiplexing the plural encoded data so as to produce recording data which is recorded in a recording medium, said data editing method comprising the steps of:

respectively encoding a plurality of inputted images or sounds and respectively storing the encoded data in different recording areas of a single storage means, control of said single storage means residing in a single control means; and